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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,378	02/01/2005	Robin J. Blackwell	GB 030053	3727

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EXAMINER

TAHA, SHAQ

ART UNIT	PAPER NUMBER
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2109

MAIL DATE	DELIVERY MODE
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07/25/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/523,378	BLACKWELL ET AL.
	Examiner shaq taha	Art Unit 2109

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1 - 9 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1 - 9 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date <u>09/06/2007</u> .	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6 – 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Zintel et al. (US 2002/0029256).

- Regarding claim 6, Zintel teaches a system, comprising: a plurality of networked devices (2,4) each having a transceiver (8) for sending and receiving network messages, **[Figs.23 & 25];**
at least one networked device (2) arranged to send a simple device query message to other devices and to receive and interpret simple device description messages subsequently received from the other devices, **[The set of modules that enable communication with a UPnP Controlled Device. User Control Points initiate discovery and communication with Controlled Devices, and receive Events from Controlled Devices, (Paragraph 0061)];**
each of the networked devices (2,4) being arranged to respond to an incoming simple device query message from another of the devices by sending a simple

device description message (230) of defined length including a device type value representing the type of the device, **[Following discovery of a UPnP device, an entity can learn more about the device and its capabilities by retrieving the device's description, (See Abstract)];** and wherein the plurality of networked devices include at least one simple device (4) without the capability to decompress messages and interpreting directly compressed messages, **[A module used by a UPnP Bridge that translates between UPnP protocols and the protocols used by Bridged and Legacy Devices, (Paragraph 0064)];** and at least one complex device including a message decompression arrangement (184) for decompressing the messages and a message interpreter for interpreting the decompressed messages, **[A typical Device Friendly Name will contain manufacturer and model information, and especially when interpreted by humans, can be used to enable a more precise identification of a UPnP Device from the set of discovered Devices, (Paragraph 0075)].**

- Regarding claim 7, Zintel teaches a system that each simple device (4) further includes a memory storing a predetermined simple device description message pre compressed from human readable format, **[The system memory includes read only memory (ROM) 824 and random access memory (RAM) 825, (Paragraph 0510)];**

wherein the message handler is arranged to read the predetermined simple device description message from the memory, [automated tools can automatically check to ensure that the templates and descriptions have all required elements, are correctly nested, and have values of the correct data types, (Paragraph 0605)];

and send it through the transceiver in response to an incoming device query message, [Following discovery of a UPnP device, an entity can learn more about the device and its capabilities by retrieving the device's description, from a URL provided by the device in an initial discovery message, (See Abstract)].

- Regarding claim 8, Zintel teaches a system that networked devices include at least one device includes a message decompression unit arranged to decode messages and to act on the decoded messages. [The system memory includes read only memory (ROM) 824 and random access memory (RAM) 825, (Paragraph 0510)]; [A module used by a UPnP Bridge that translates between UPnP protocols and the protocols used by Bridged and Legacy Devices, (Paragraph 0064)]; [A typical Device Friendly Name will contain manufacturer and model information, and especially when interpreted by humans, can be used to enable a more precise identification of a UPnP Device from the set of discovered Devices, (Paragraph 0075)].

- Regarding claim 9, Zintel teaches a computer program product, comprising code for receiving token-compressed messages, **[The template is derived from a template language that is used to define elements to describe the device and any services supported by the device. The template language is written using an XML-based syntax that organizes and structures the elements, (See Abstract)];** code for recognizing in the received token-compressed messages incoming simple device description query messages requiring a simple device description response from the networked device, without decompressing the incoming messages, **[The template is derived from a template language that is used to define elements to describe the device and any services supported by the device. The template language is written using an XML-based syntax that organizes and structures the elements, (See Abstract)];** and code for sending a simple device description (230) including a device type as a response to an incoming device query message requiring a simple device description response, **[The template is derived from a template language that is used to define elements to describe the device and any services supported by the device. The template language is written using an XML-based syntax that organizes and structures the elements, (See Abstract)].**

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 - 5, are rejected under 35 U.S.C. 103(a) as being unpatentable over Zintel et al. (US 6,222,530) as applied to claims 1 above, and further in view of Unger et al. (US 5,991,713).

- Regarding claim 1, Zintel teaches a method of operating a networked device, **[This invention relates generally to dynamic connectivity among distributed devices and services, and more particularly relates to providing a capability for devices to automatically self-configure to interoperate with other peer networking devices on a network, such as in a pervasive computing environment, (Paragraph 0002)];** including: receiving token-compressed messages, **[User Control Points initiate discovery and communication with Controlled Devices, and receive Events from Controlled Devices, (Paragraph 0061)];**

recognizing in the received token-compressed messages incoming simple device description query messages requiring a simple device description response from the networked device, without decompressing the incoming messages,

[Following discovery of a UPnP device, an entity can learn more about the device and its capabilities, or interact with the device, by retrieving the device's description from a URL provided by the device in an initial discovery message, (Paragraph 0009)];

and sending a simple device description message (230) including a device type,

[A Device Definition includes a Device Type Identifier, the fixed elements in the Description Document, (Paragraph 0069)];

as a response to an incoming device query message requiring a simple device description response, **[An unsolicited message generated by a Controlled**

Device and delivered to one or more User Control Points, (Paragraph

0087)].

Regarding claim 2, Zintel teaches a method according to claim 1, wherein the step of sending a simple device description includes reading a predetermined simple device description from a memory (14) in the networked device and sending the predetermined simple device description, **[Because the UPnP template language, UPnP device templates, and UPnP device descriptions are all machine-readable, automated tools can automatically check to ensure that the templates and descriptions have all required elements, are**

correctly nested, and have values of the correct data types, (Paragraph 0605)].

Regarding claim 3, Zintel teaches a method according to claim 1 or 2 wherein the networked device is part of a wireless network and the steps of receiving token-compressed messages and sending the simple device description use wireless signals, **[This mechanism can easily support device front panels and wireless remotes that do not run UPnP protocols, (Paragraph 0058)].**

Regarding claim 4, Zintel teaches a networked device, comprising a transceiver (8) for sending and receiving token-compressed human readable messages, **[Controlled Devices respond to discovery requests, accept incoming communications from User Control Points and may send Events to User Control Points, (Paragraph 0062) & [Fig.23, Ref # 620];** and a message handler (26, 182) arranged to carry out the steps on incoming token-compressed human readable messages, **[In addition to the creating the Service object, the Rehydrator sets up its internal data structures so that it can properly handle requests to control the service, (Paragraph 0224)];** of: recognizing received device query messages requiring a simple device description response from the networked device, without decompressing the incoming messages, **[Following discovery of a UPnP device, an entity can learn more about the device and its capabilities, or interact with the device,**

by retrieving the device's description from a URL provided by the device in an initial discovery message, (Paragraph 0009)];
and sending through the transceiver a simple device description including a device type as a response to an incoming device query message requiring a simple device description response, **[[Following discovery of a UPnP device, an entity can learn more about the device and its capabilities by retrieving the device's description, (See Abstract)].**

Regarding claim 5, Zintel teaches a networked device according to claim 4 further comprising a memory (14) storing a predetermined simple device description message pre compressed from human readable format, **[The system memory includes read only memory (ROM) 824 and random access memory (RAM) 825, (Paragraph 0510)];**
wherein the message handler is arranged to read the predetermined simple device description message from the memory and send it through the transceiver in response to an incoming device query message, **[In addition to the creating the Service object, the Rehydrator sets up its internal data structures so that it can properly handle requests to control the service, (Paragraph 0224)].**

Zintel et al. differs from the claimed invention in that the simple device description message (230) is in the form of a token-compressed message compressed from a human-readable message format is not taught in Sequeira et al.

Unger teaches a method for compressing text includes steps of parsing words from text in an input file and comparing the parsed words to a predetermined dictionary. The dictionary has a plurality of vocabulary words in it and numbers or tokens corresponding to each vocabulary word. A further step is determining which of the parsed words are not present in the predetermined dictionary and creating at least one supplemental dictionary including the parsed words that are not present in the predetermined dictionary. The predetermined dictionary and the supplemental dictionary are stored together in a compressed file. Also, the parsed words are replaced with numbers or tokens corresponding to the numbers assigned in the predetermined and supplemental dictionary and the numbers or tokens are stored in the compressed file, (**See Abstract**), and further teaches that when such a frequency table is used as the primary mechanism for determining the encoding of token in the compressed text, (**Column 1, lines 60 - 65**).

Unger provides the advantage of that the simple device description message (230) is in the form of a token-compressed message compressed from a human-readable message format.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Zintel by including a token-compressed message compressed from a human-readable message format as taught by Unger.

One of ordinary skill in the art would have been motivated to make this modification in order provide the advantage of providing that the simple device

description message (230) is in the form of a token-compressed message compressed from a human-readable message format.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 6,222,530. System and method for a master scheduler.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Shaq Taha** whose telephone number is 571-270-1921.

The examiner can normally be reached on 8:30am-5pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Jeff Pwu** can be reached on 571-272-6798.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shaq Taha
7/19/2007


JEFFREY PWU
SUPERVISORY PATENT EXAMINER